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MAKE NEW ELECTRIC EQUIPMENT FOR AGRICULTURE, TIMBER INDUSTRY;
IMPROVE POWER PLANT EQUIPMENT

PRODUCES PORTABLE POWER PLANTS FOR AGRICULTURE -- Kommunist, 10 Jun 50

Enterprises of the Ministry of State Farms are increasing the output of machines for the electrification of kolkhoz production.

A Ural machine plant of the Zapadno-Kazakhstan Oblast has more than doubled its production of wind electric motors this year. The Tambov Machine Plant has started to produce new portable electric power plants which occupy a little more than one square meter of space and weigh less than 1,200 kilograms; they are powered by a 9-horsepower Diesel motor.

Sovetskaye Litva, 4 Jun 50

The Tambov Machine Shop of the Ministry of State Farms, USSR has produced an experimental portable electric power plant which is powered by a 9-horsepower Diesel motor and has a generator with a 4.5-kilowatt capacity. It is a small apparatus, $\frac{1}{2}$ meter long, one meter wide, and 1.4 meters high. It can be used in field conditions for threshing, grain cleaning, milking, shearing, and pumping water.

TIMBER REGIONS GET EFFICIENT POWER PLANT -- Leninskoye Znamya, 9 Jun 50

Tests of an experimental gas generator electric power plant which operates on green wood have been concluded at the Forest Technology Academy imeni S. M. Kirov. The tops and branches of various tree types can be used as fuel when still green. The gas generator assembly was developed under the direction of S. F. Orlov, a lecturer at the academy.

The plant is simple to manufacture, light in weight, and has simple parts. The first series of this power plant will be produced by a factory in Riga for timber regions of the country.

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POWER PLANT AUTOMATICALLY OPERATED -- Moskovskaya Pravda, 4 Jun 50

In the Moscow Electric Power System there are hydroelectric power plants which are automatically operated. Automatic reports on the condition of equipment and the load can be obtained by telephone. A man on duty visits the plant and inspects the equipment once every 24 hours or even less frequently. At the end of 1951, all regional power plants will operate automatically.

Wolnosc, 13 Apr 50

During 1950 and 1951, USSR's Ministry of Power Plants resolved to equip all its hydroelectric power plants now operating and under construction with automatic control apparatus. All information pertaining to the condition and working order of the equipment may be obtained by telephone through the "automatic reporter," an electronic device. With the exception of two or three persons at the distribution board, there are no other employees at the plants.

Small hydroelectric plants are equipped with automatic equipment which turns the machinery on or off depending on the water level.

PEAT FUEL FOR SMALL RURAL ELECTRIC POWER PLANTS -- Pravda Ukrainsy, 13 Jun 50

With a view to making peat practical as fuel for small rural electric power plants, a group from the Ukrainian Scientific Research Institute for Fuel developed a UTG-5-45 gas power generator designed for supplying gas to a 45-horsepower motor. Tests showed that the gas generator could use peat with nearly 35 percent moisture content and 18 percent ash content. One and one half kilograms of peat were consumed per horsepower, which is half that used by similar power plants. The purifier of the gas generator is dependable and simply constructed.

An interdepartmental committee under the chairmanship of the director of the Institute of Heat and Power Engineering Academy of Sciences Ukrainian SSR, has recommended this gas generator for production and it is likely that the construction of 20 or 30 interkolkoz peat-fired electric power plants will be started in the Ukraine this year.

PLANT PRODUCES ELECTRICAL EQUIPMENT -- Leningradskaya Pravda, 8 Apr 50

The Karaganda Repair and Machinery Plant of the Ministry of Electric Power Plants makes steam and water equipment for boilers, acid-proof equipment for chemical water cleaners, spare parts for turbines, and special ladders for repairing high-voltage lines under load. In March, it mastered production of regulating valves for automatic feeding of water to boilers and yesterday sent some of these valves to electric power plants in the Moscow area. The plant makes up to 300 production types for electric power plants.

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